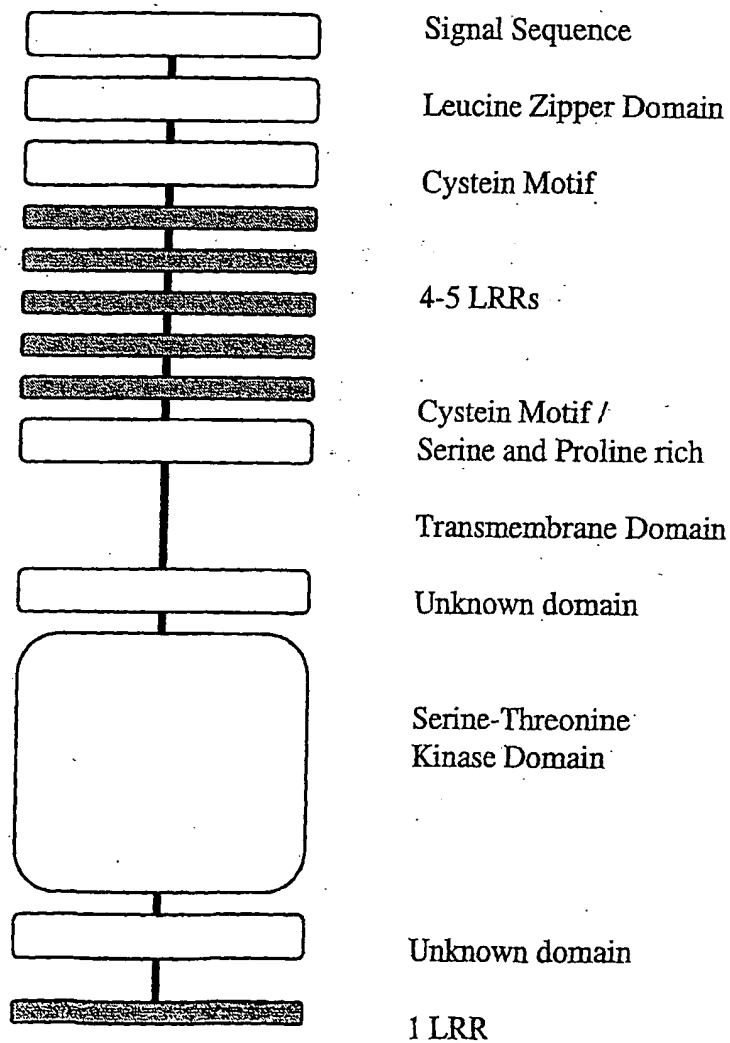


Fig. 1

Different domains of RKS proteins



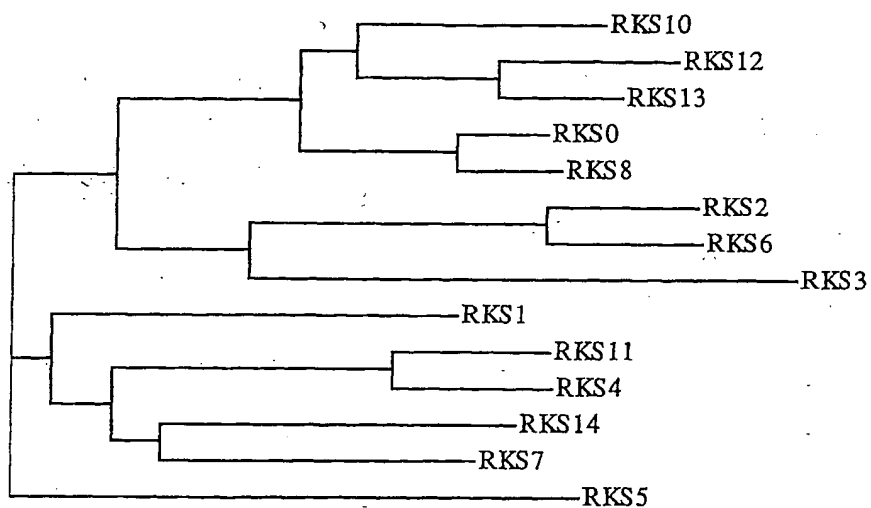
WO 2004/007712

2/36

PCT/NL2003/000524

Fig. 2

Developmental tree of the different Receptor Kinases like SERK (RKS) genes.



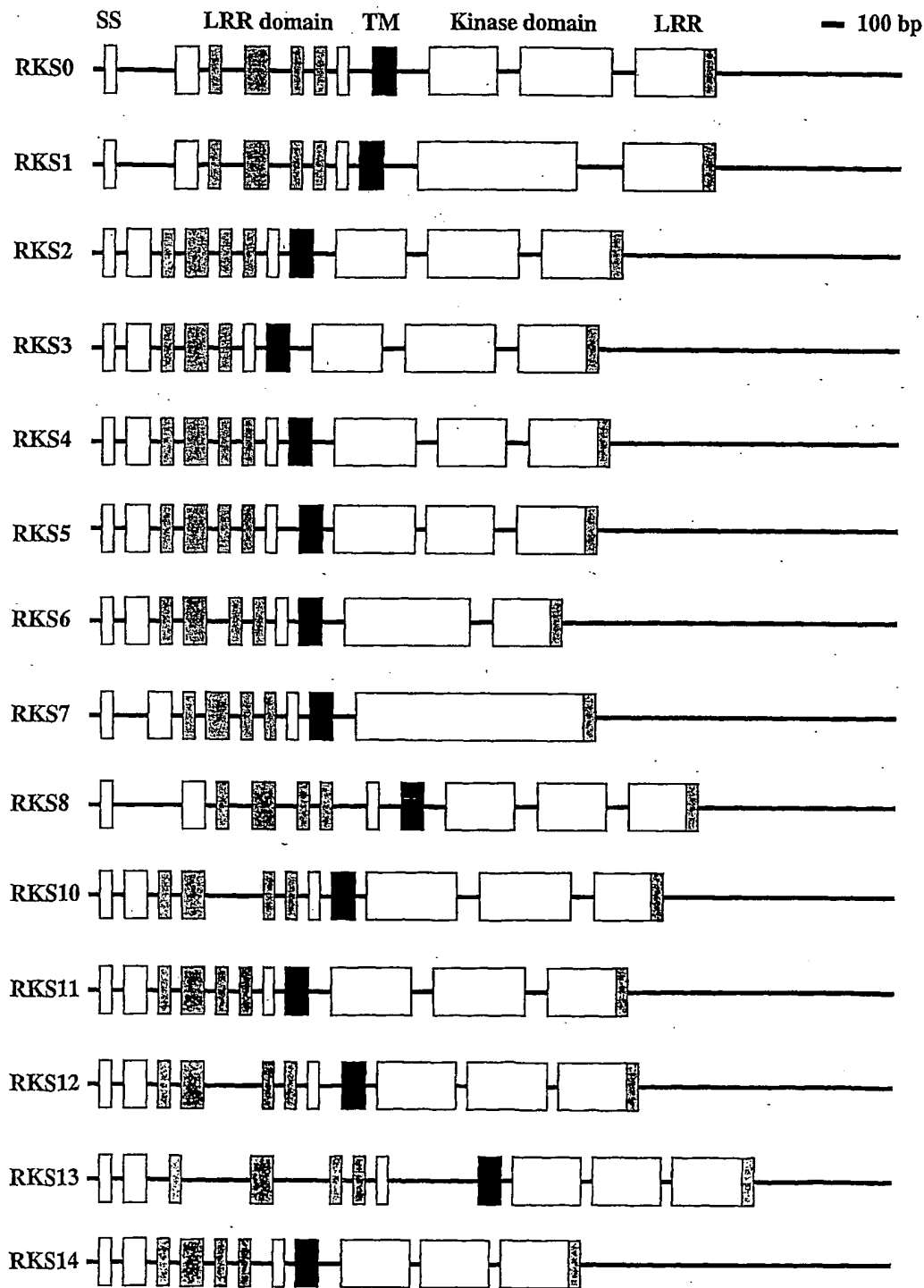
WO 2004/007712

PCT/NL2003/000524

3/36

Fig. 3

Intron-Exon structure of the RKS genes in *Arabidopsis thaliana* var. Columbia.
SS signal sequence; LRR leucine rich repeat domain; TM transmembrane domain.



PCT/NL2003/000524

4/36

Chromosomal location of RKS genes in *Arabidopsis thaliana*

GASA At1g22690

RKS8 At1g34210

SPL4 At1g53160

RKS1 At1g60800

RKS0 Atlg71830

GASA At1g74670

GASA Atlg/5750

I

RKS13 At2g13790

RKS12 A2g13800

GASA At2g14900

GASA Ar2g18420

1.3 30000

RA54 At2g23950

GASA At2g30810

SPL3 At2g33810

GASA At2g39540

III

GASA At3g02885

GASA At3g10170

SPL5 At3g15270

RKS14 At3g25560

ELS3 At3g43740

VI

NHL22 At4g09590

GASA3 At4g09600

GASAZ A14809610

RKS11 At4g30520

RKS10 A14g33430

A

RKS6 At5g10290

GASA At5g14920

GASA4 A15E15230

RKS7 At5g16000

ELSI At5g21090

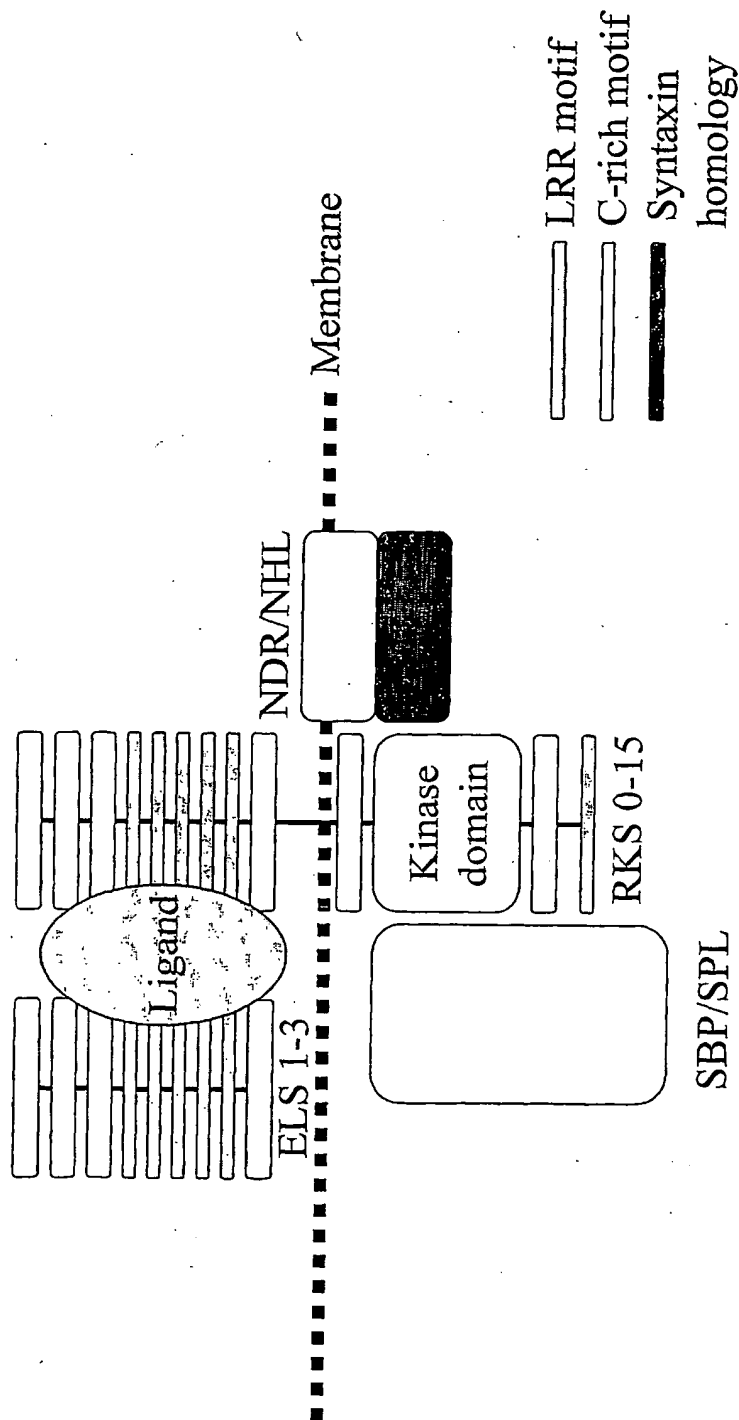
RKS5 At5g45780

RKS3 At5g63710

RKS2 A15g65240

Fig. 4

RKS-mediated signal transduction pathway in plants



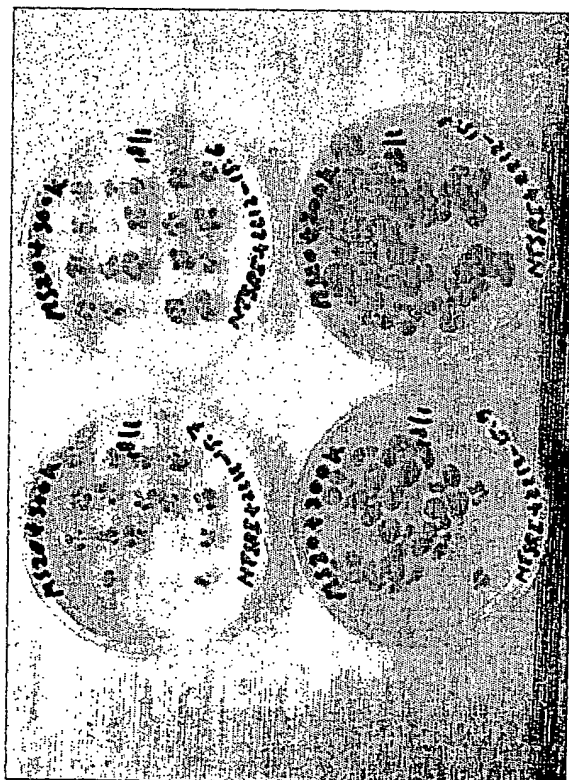
10/521518

WO 2004/007712

6/36

PCT/NL2003/000524

GT-RKS4 determines seedling size
in *Nicotiana tabacum*.



Modifications in the
expression profile
of GT-RKS4 modulates
organ size within seedlings
of *Nicotiana tabacum*.

10/521518

WO 2004/007712

PCT/NL2003/000524

7/36

Fig. 7

GT-RKS4-7S-T2

GT-RKS4-6S-T2

GT-RKS4-3S-T2

GT-RKS4 determines organ size
in *Nicotiana tabacum*.

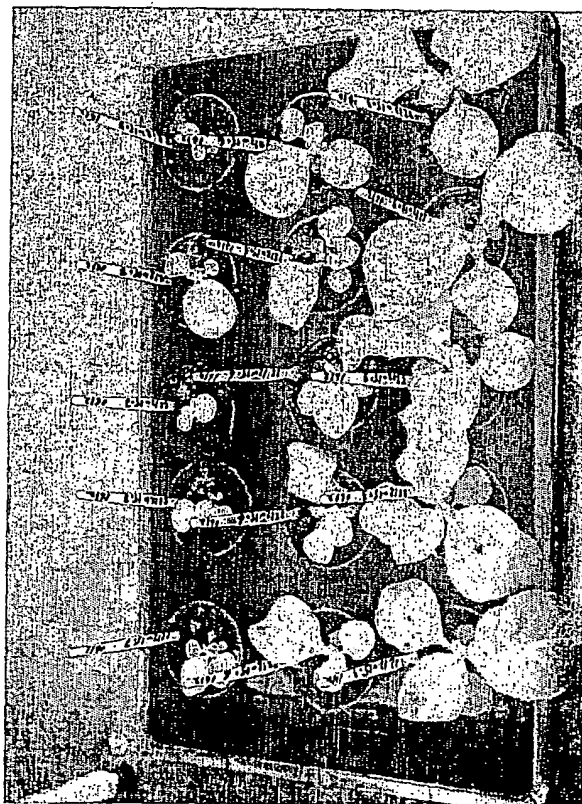
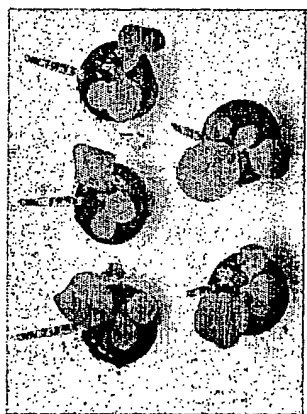


Fig. 8

GT-RKS4 determines plant size
in *Nicotiana tabacum*



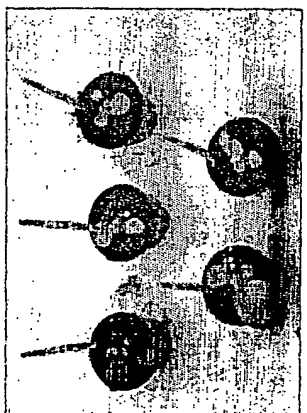
Empty vector control



GT-RKS4-15S-6T2



GT-RKS4-15S-3T2



GT-RKS4-15S-7T2

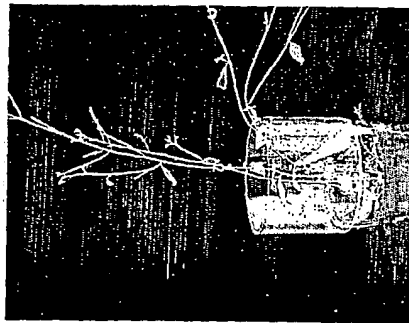


GT-RKS4-15S-9T2

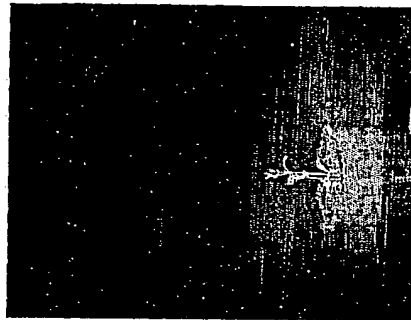
Fig. 9

Stable transformed GT-RKS4-antisense
in *Arabidopsis thaliana*

Wildtype WS



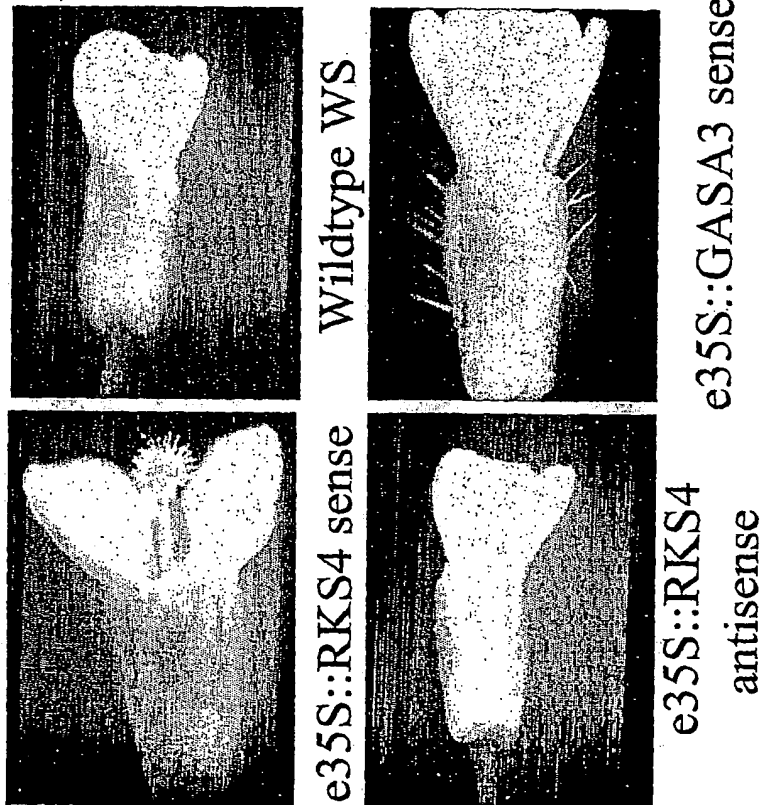
GT-RKS4-16a



Overexpression of antisense GT-RKS4-1a
reduces plant and organ size.

Fig. 10

Ectopic expression of RKS4 and GASA3
gene products both result in increases
flower size in *Arabidopsis thaliana* WS



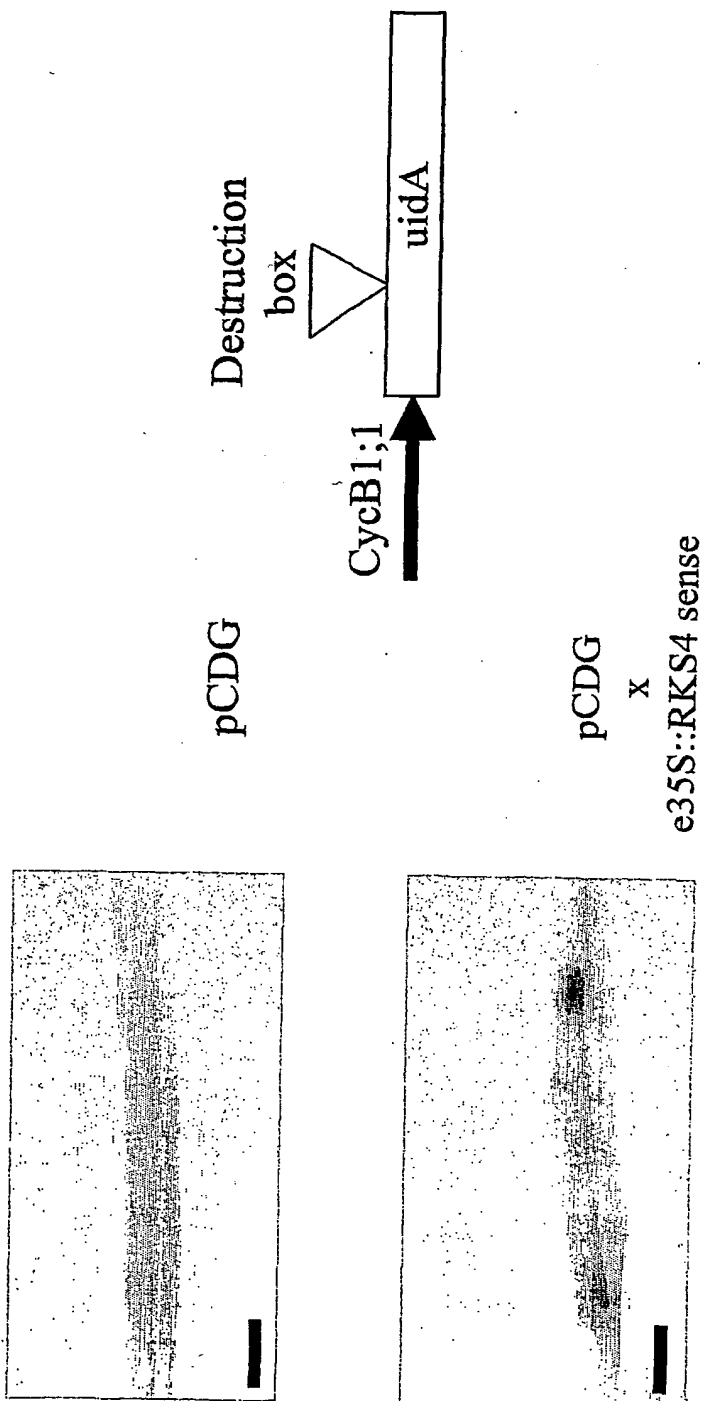
WO 2004/007712

11/36

PCT/NL2003/000524

Fig. 11

Ectopic expression of RKS4 in seedlings results
 in the formation of meristematic regions in the
 hypocotyl of *Arabidopsis thaliana* WS



WO 2004/007712

12/36

PCT/NL2003/000524

Fig. 12

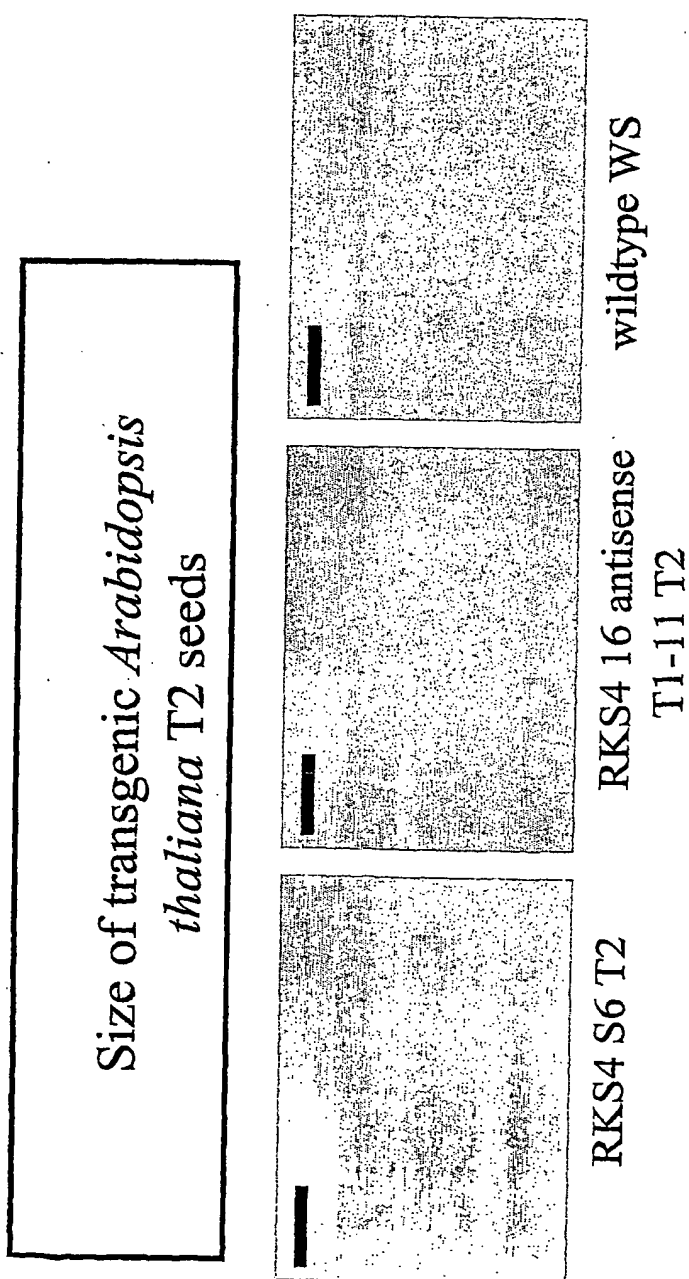


Fig. 13

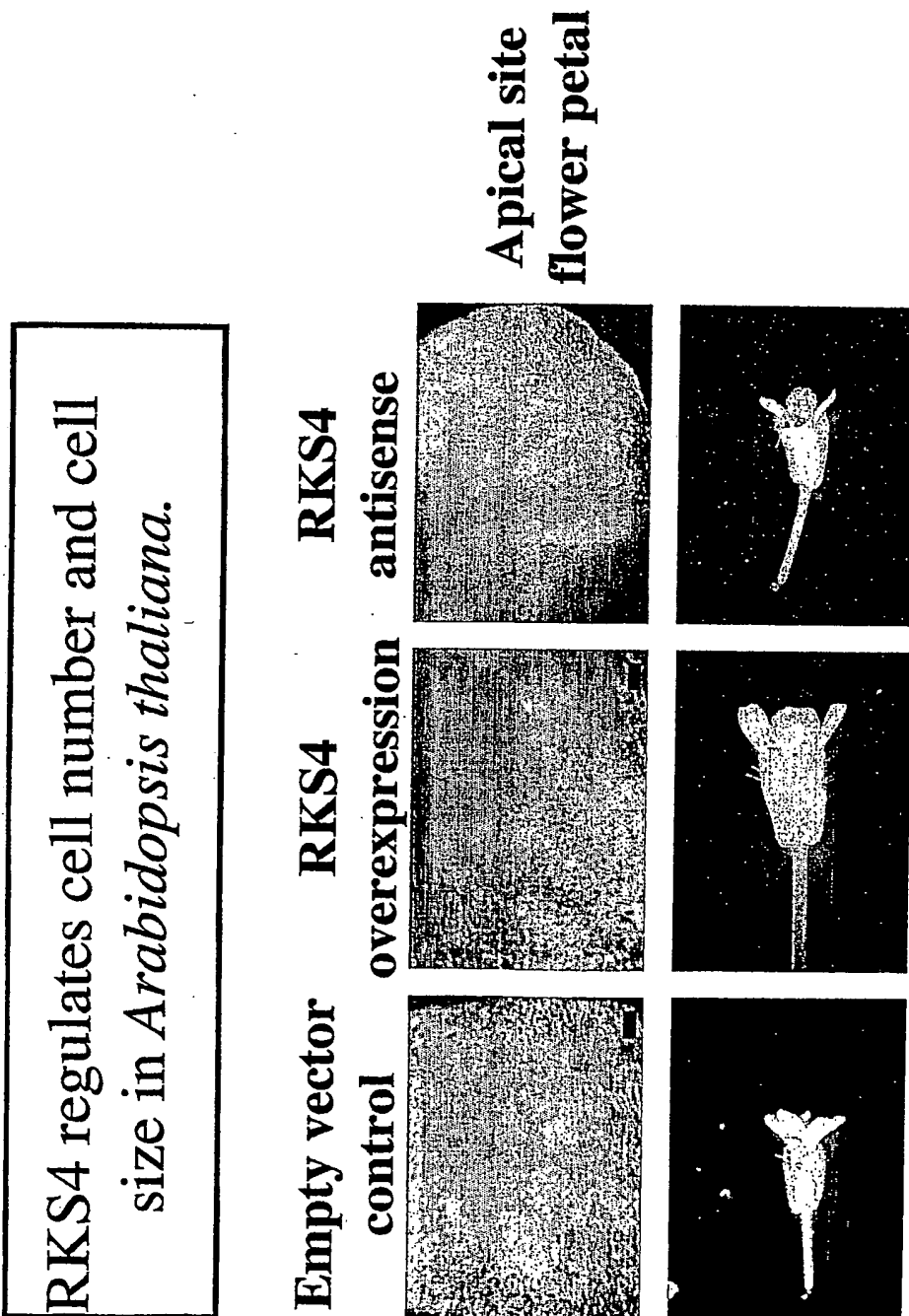
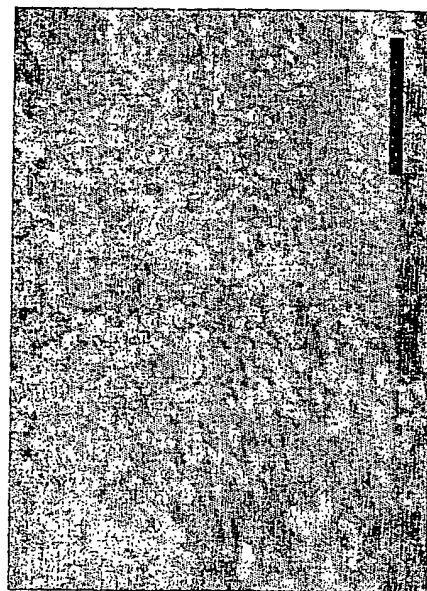
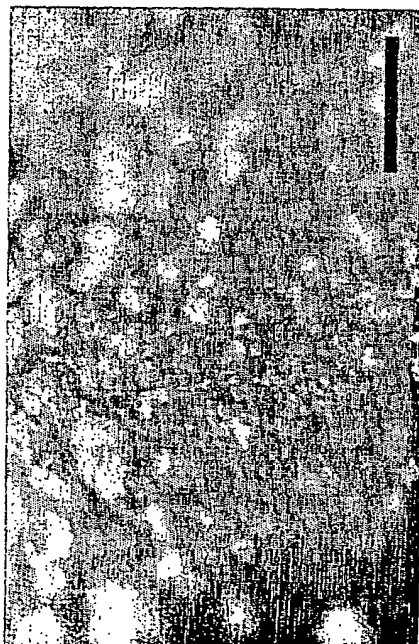


Fig. 14

RKS10S T1-10
results in a decrease in size
of cotyl-like apical epidermal cells



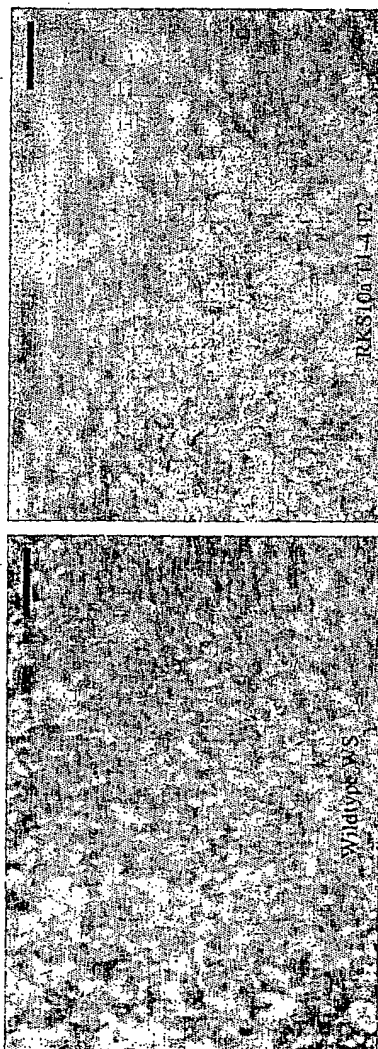
RKS10S T1-10



pGreen 4K

Fig. 15

RKS10antisense T1-4
results in an increase in size
of the cotyl epidermal cells



10/521518

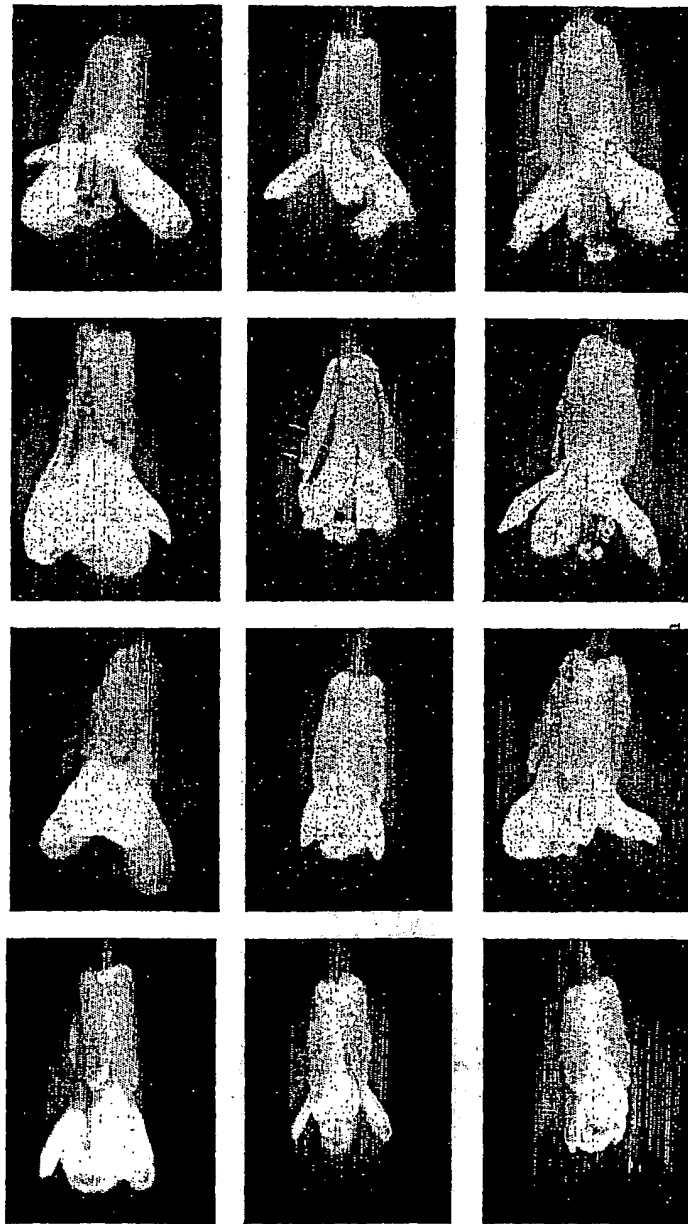
WO 2004/007712

16/36

PCT/NL2003/000524

Fig. 16

Flower development from the same
inflorescence in transgenic
Arabidopsis thaliana



WO 2004/007712

17/36

PCT/NL2003/000524

Fig. 17

Regeneration potential of
Arabidopsis transgenic seedlings.

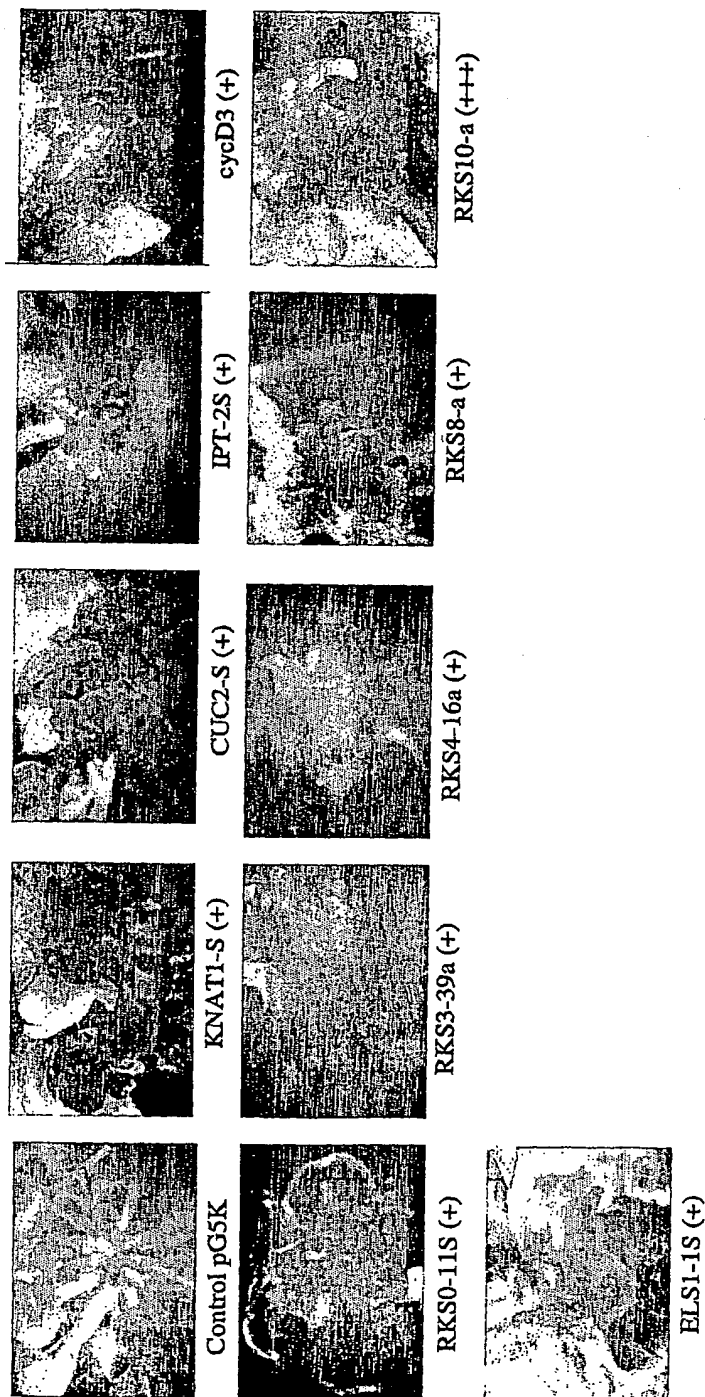
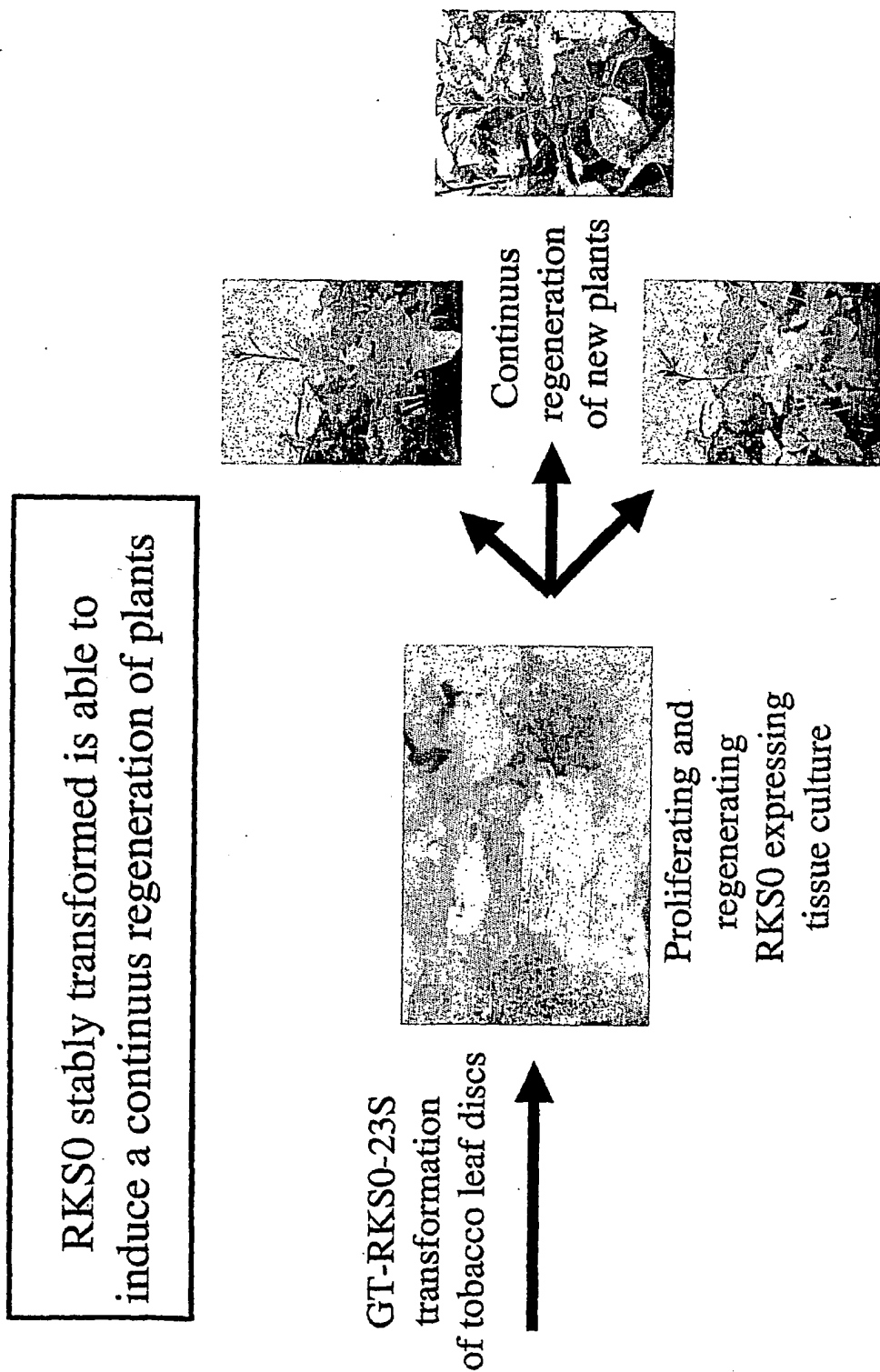


Fig. 18



WO 2004/007712

19/36

PCT/NL2003/000524

Fig. 19

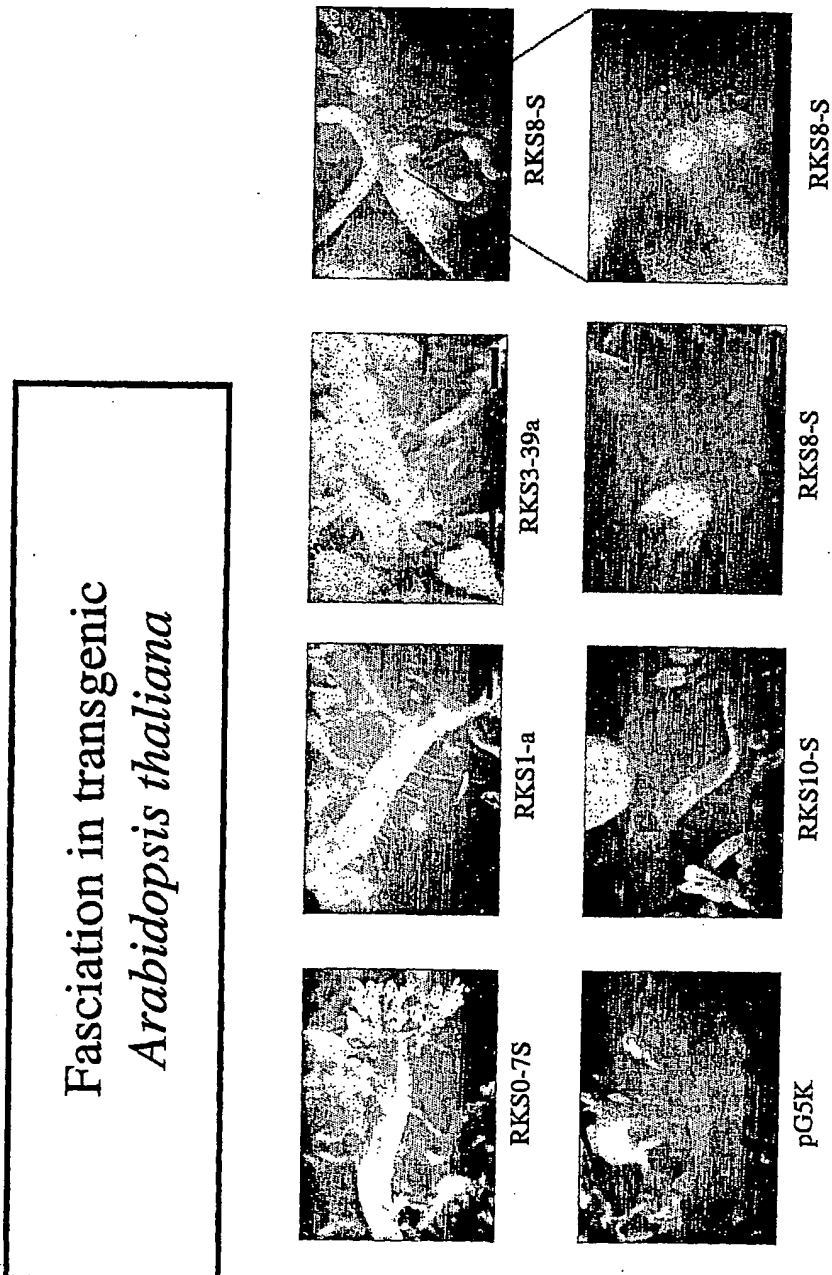


Fig. 20

Root growth of transgenic
Arabidopsis thaliana

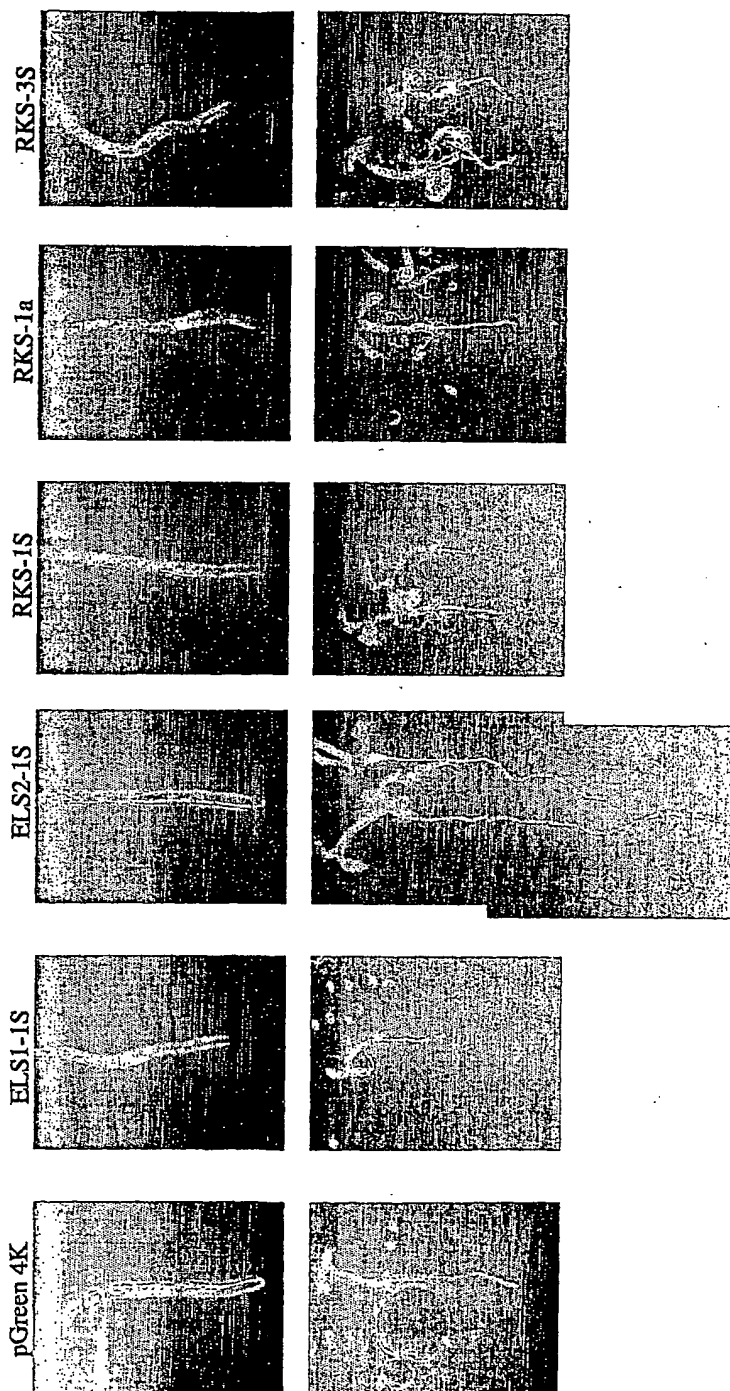


Fig. 21

Root growth of transgenic
Arabidopsis thaliana

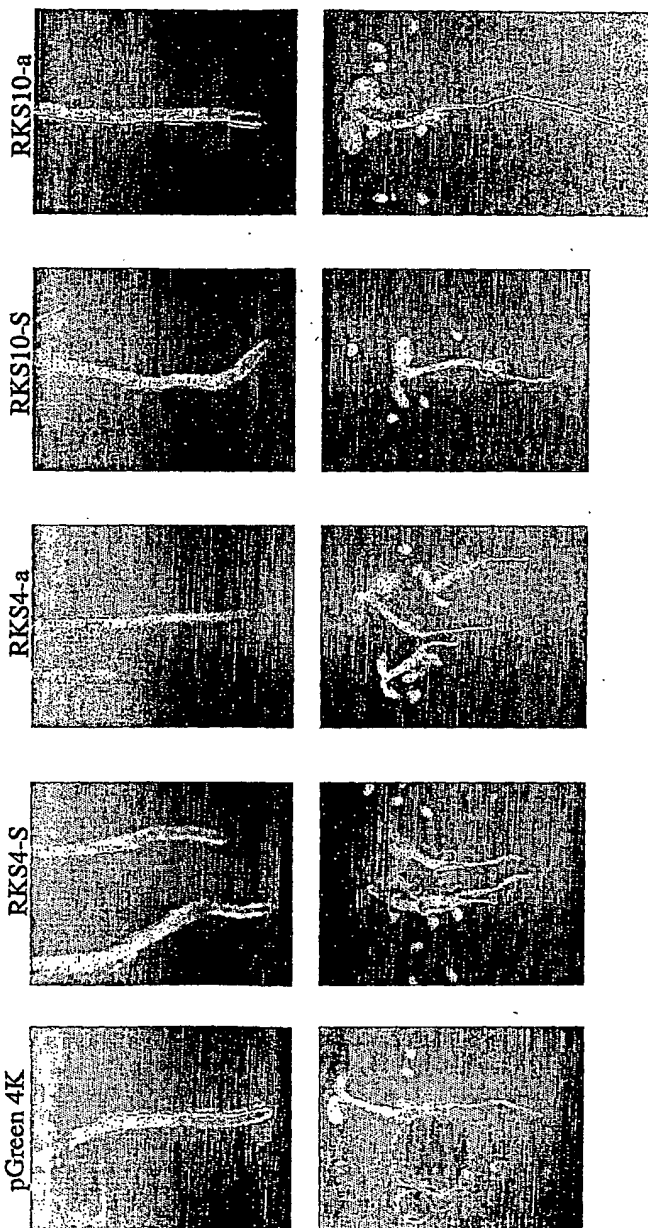


Fig. 22

Root growth of transgenic
Arabidopsis thaliana

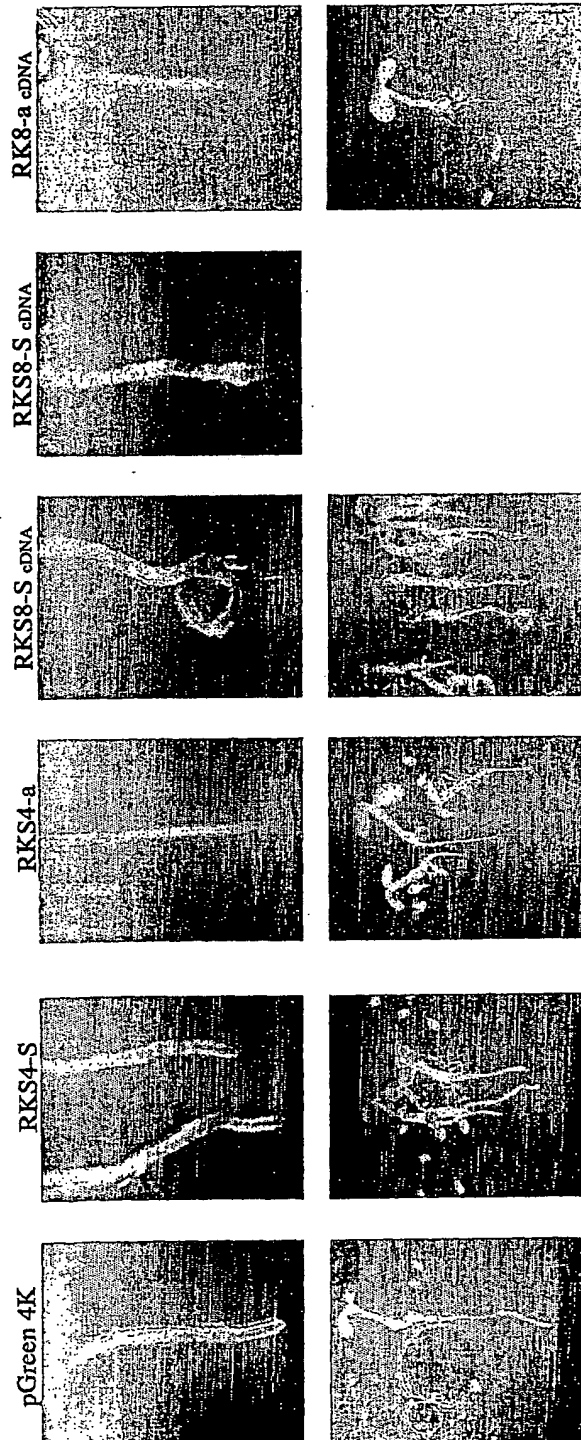
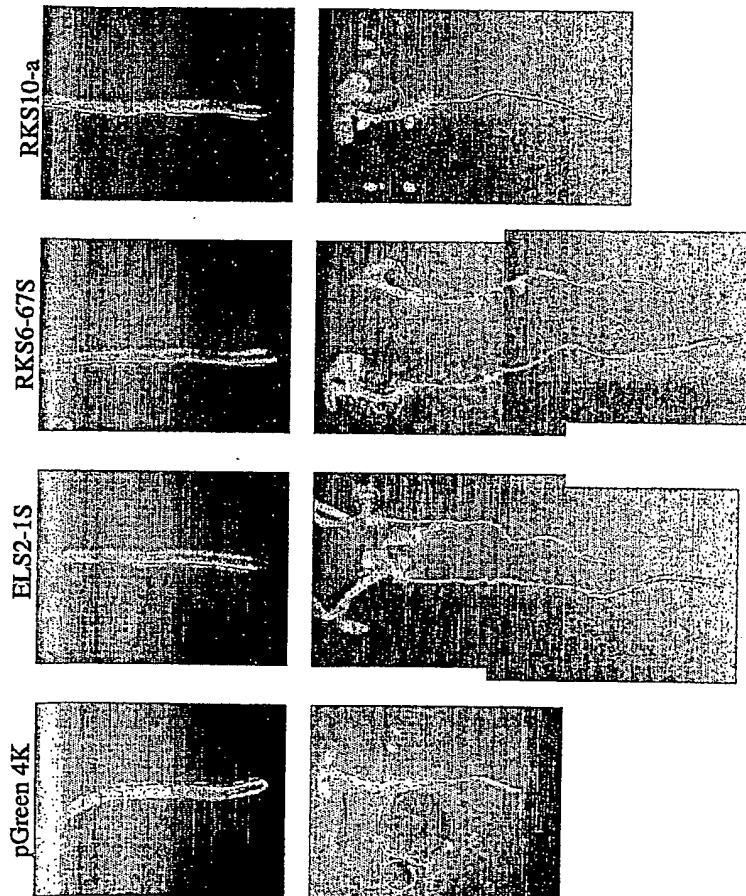


Fig. 23

Root growth of transgenic
Arabidopsis thaliana



WO 2004/007712

PCT/NL2003/000524

24/36

Fig. 24

Transgenic *Arabidopsis thaliana*
 primary root length after 14 days
 of germination

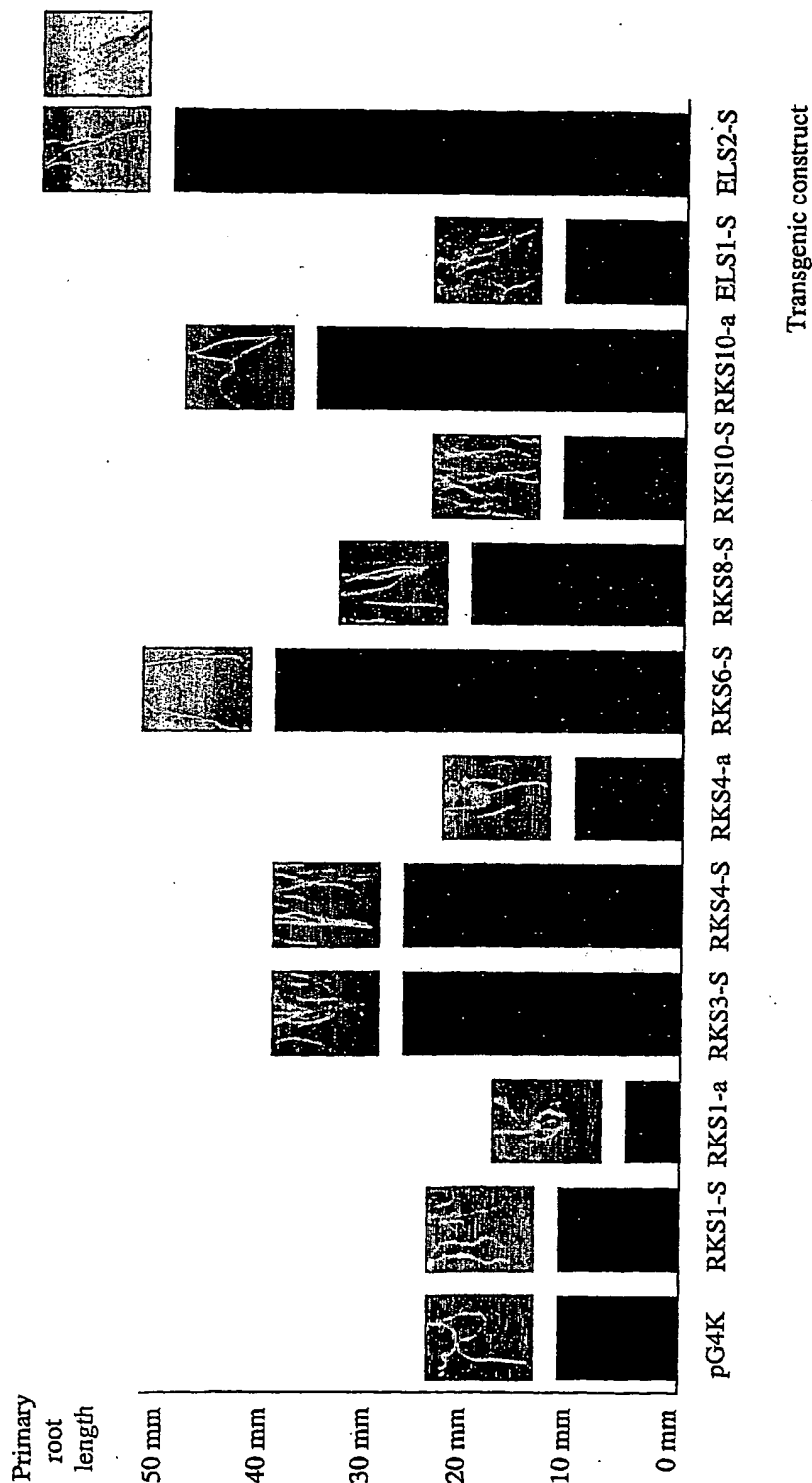


Fig. 25

Effects of RKS10 transgenic
constructs on plant development
of 45 days old *Arabidopsis* WS

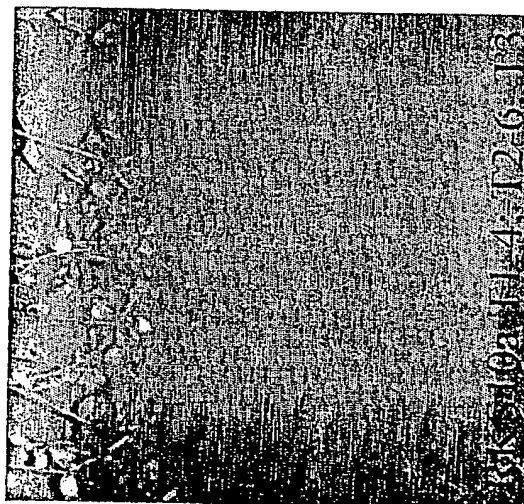
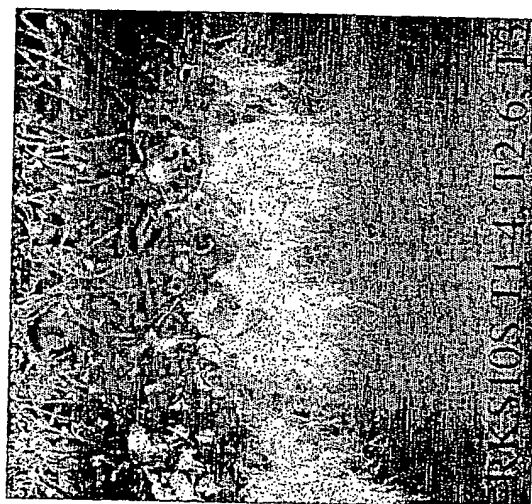
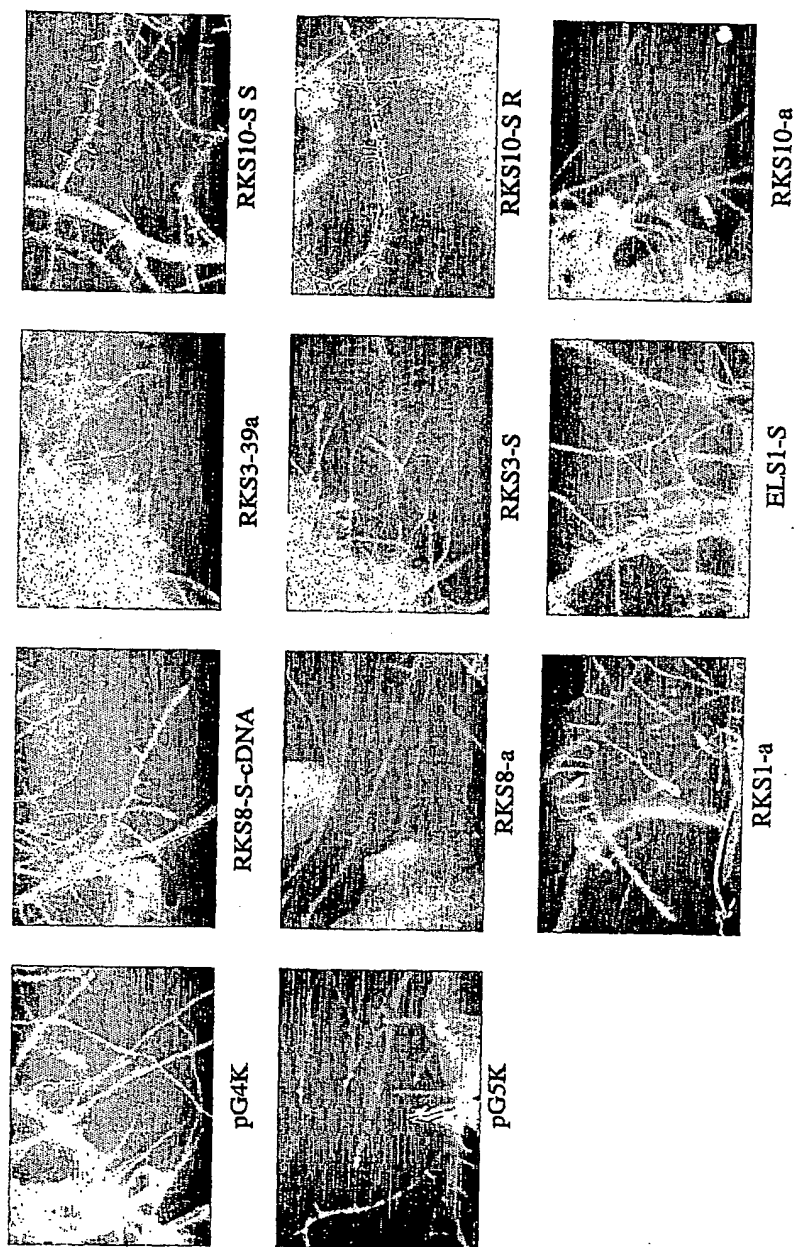


Fig. 26

Roots of Transgenic
Arabidopsis thaliana



10/521518

11

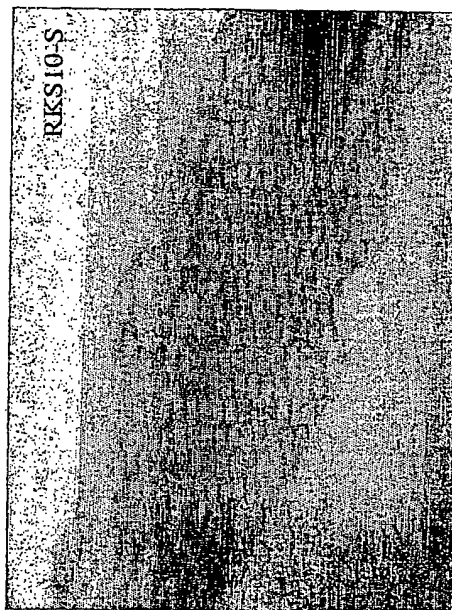
WO 2004/007712

PCT/NL2003/000524

27/36

Fig. 27

Root cells of transgenic
Arabidopsis thaliana



10/521518

WO 2004/007712

28/36

PCT/NL2003/000524

Fig. 28

Influences of T1 transgenic
Arabidopsis WS plants

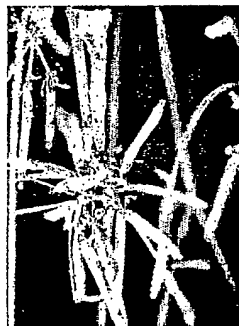
ELS-1-T1



RKS8-a-T1-10



RKS10-a-T2



RKS10-S-T1-10



Control pGreen4K

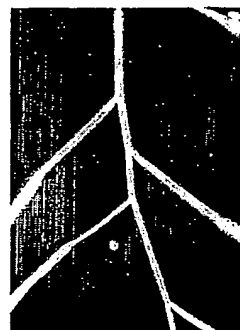
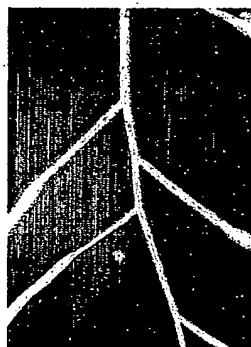


Fig. 29

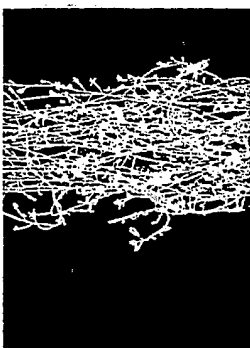
Influences of T1 transgenic
Arabidopsis WS plants



Control pG4K



RKS8-a-T1-10



RKS10-S-T1-10



WO 2004/007712

30/36

PCT/NL2003/000524

Fig. 30

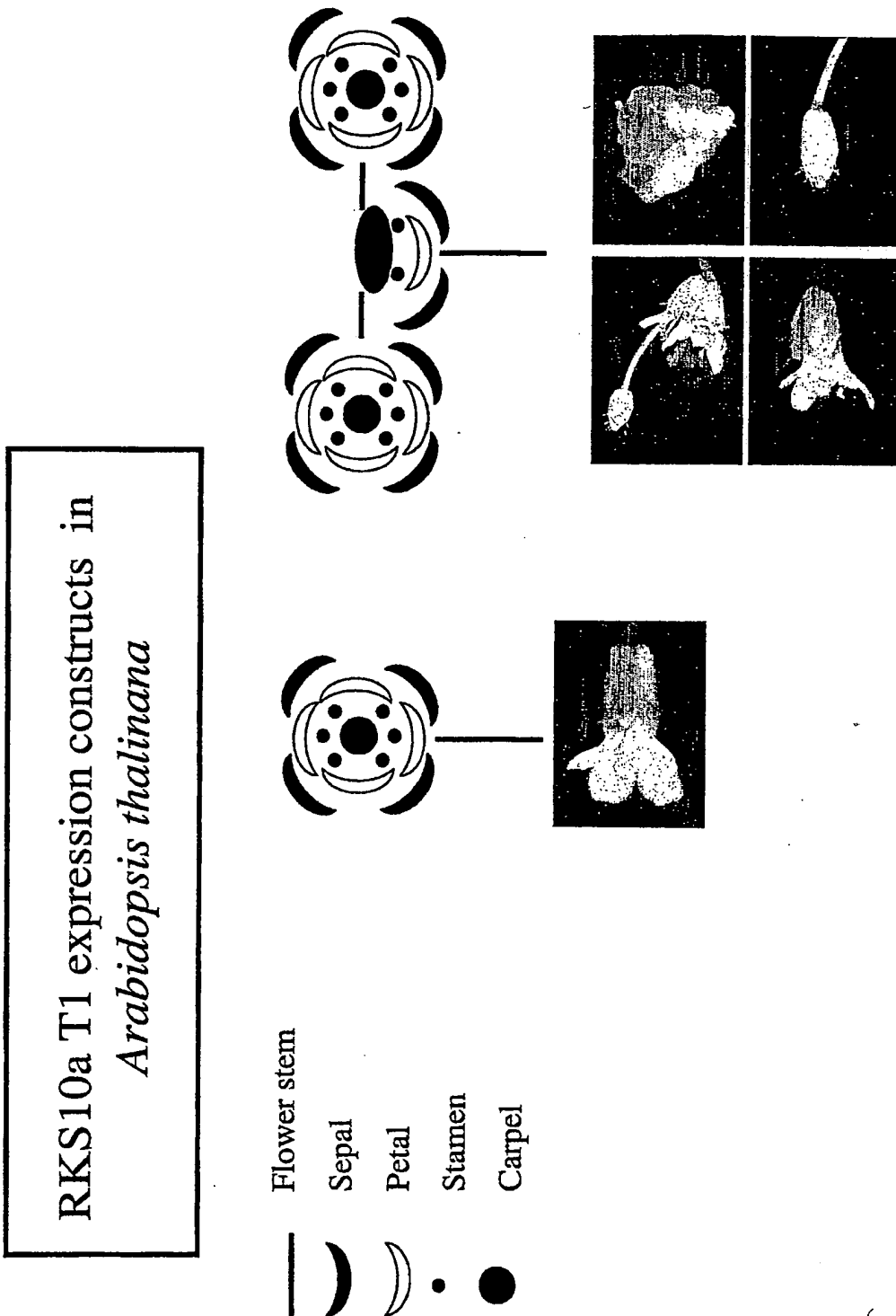
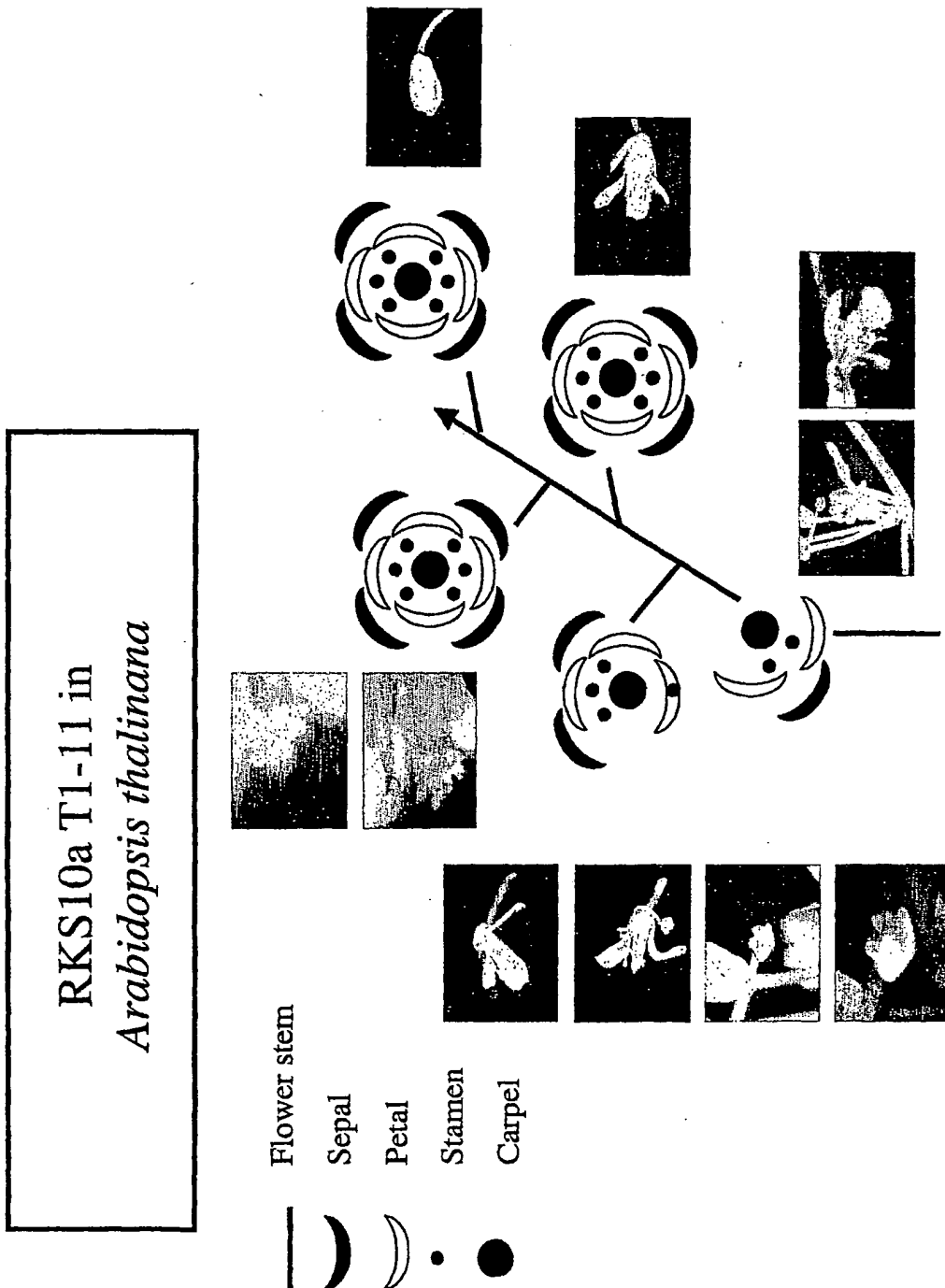


Fig. 31



10/521513

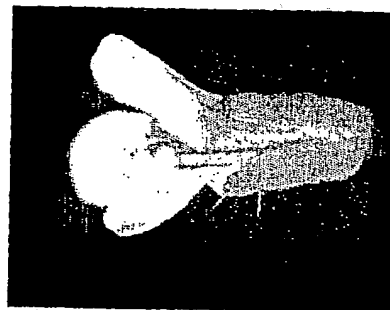
WO 2004/007712

32/36

PCT/NL2003/000524

Fig. 32

RKS10 antisense effects in
Arabidopsis thaliana



pGreen 4K



RKS10a T1-11



detail flower RKS10a T1-11



Fig. 33

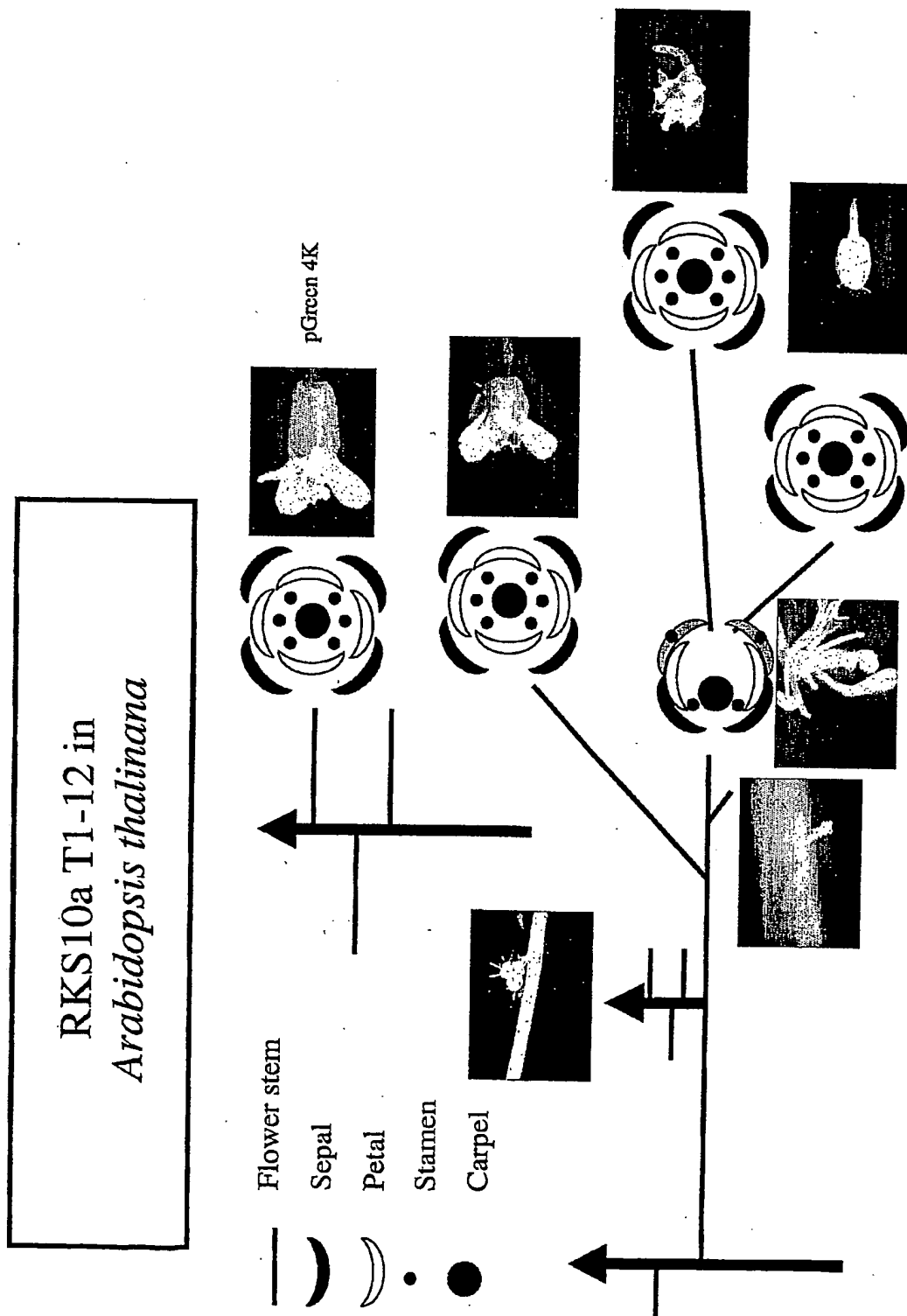
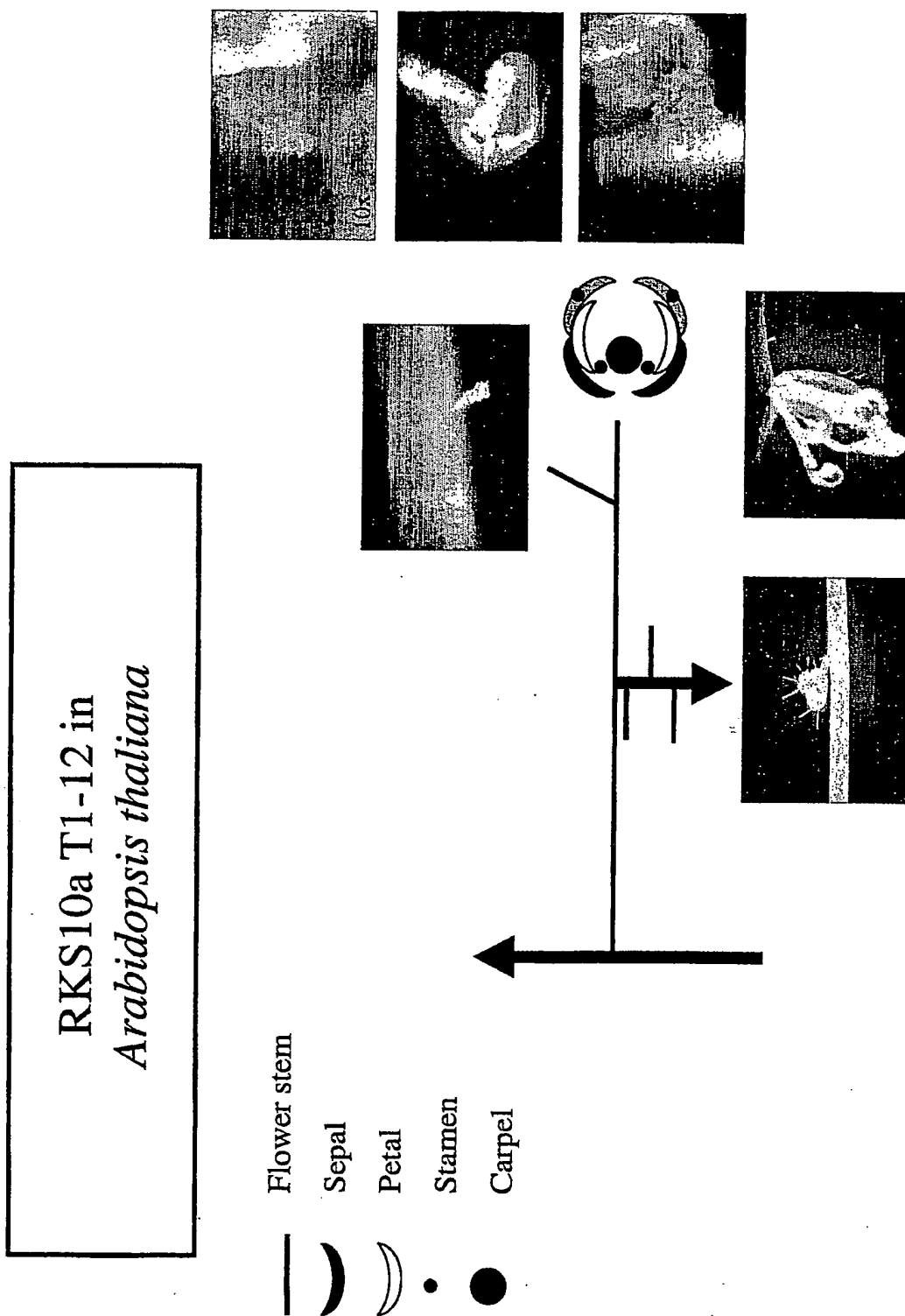


Fig. 34



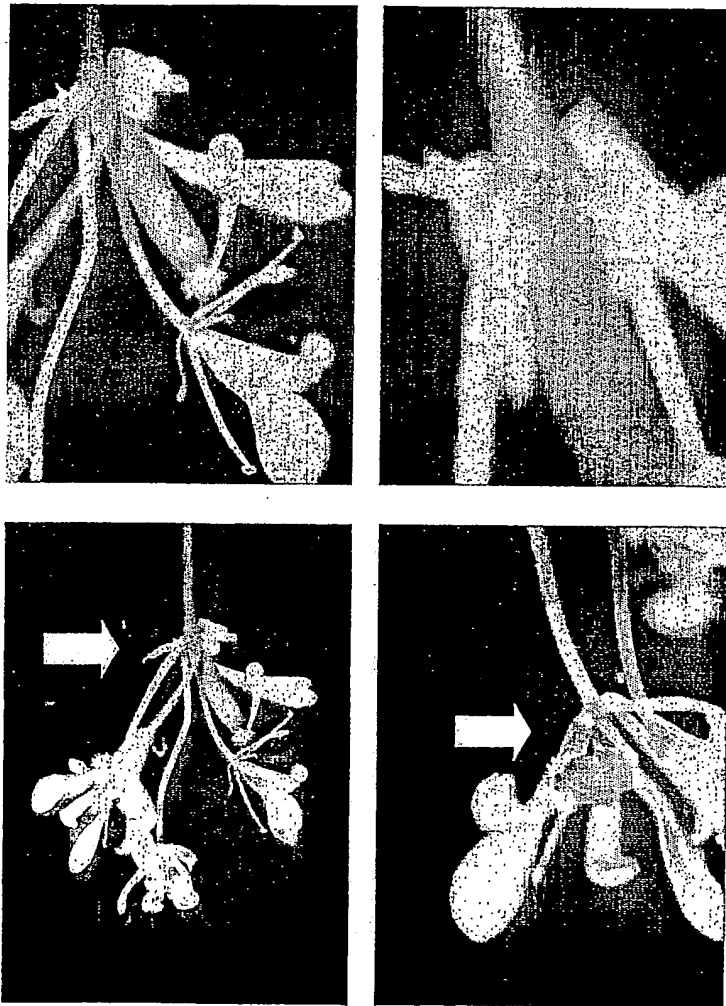
WO 2004/007712

35/36

PCT/NL2003/000524

Fig. 35

RKS13 regulates
flower meristem identity in
Arabidopsis thaliana



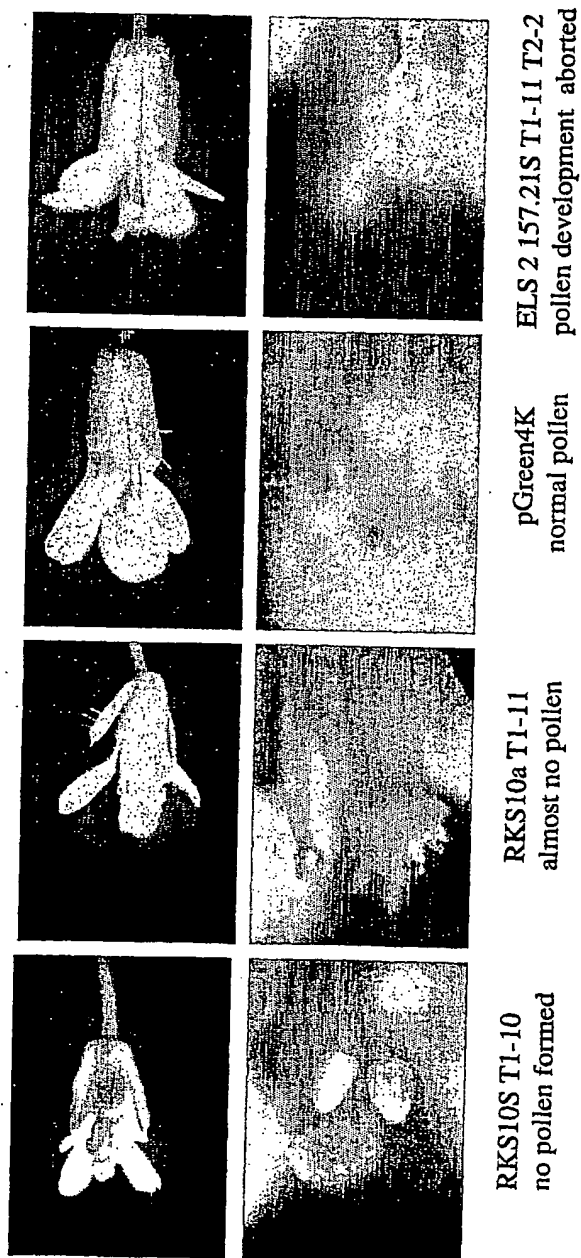
WO 2004/007712

36/36

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Fig. 36

Male sterile transgenes in
Arabidopsis thaliana



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